

Figure 1

0000100-11001
100011-0011000

20 ug/mL Proteinase K

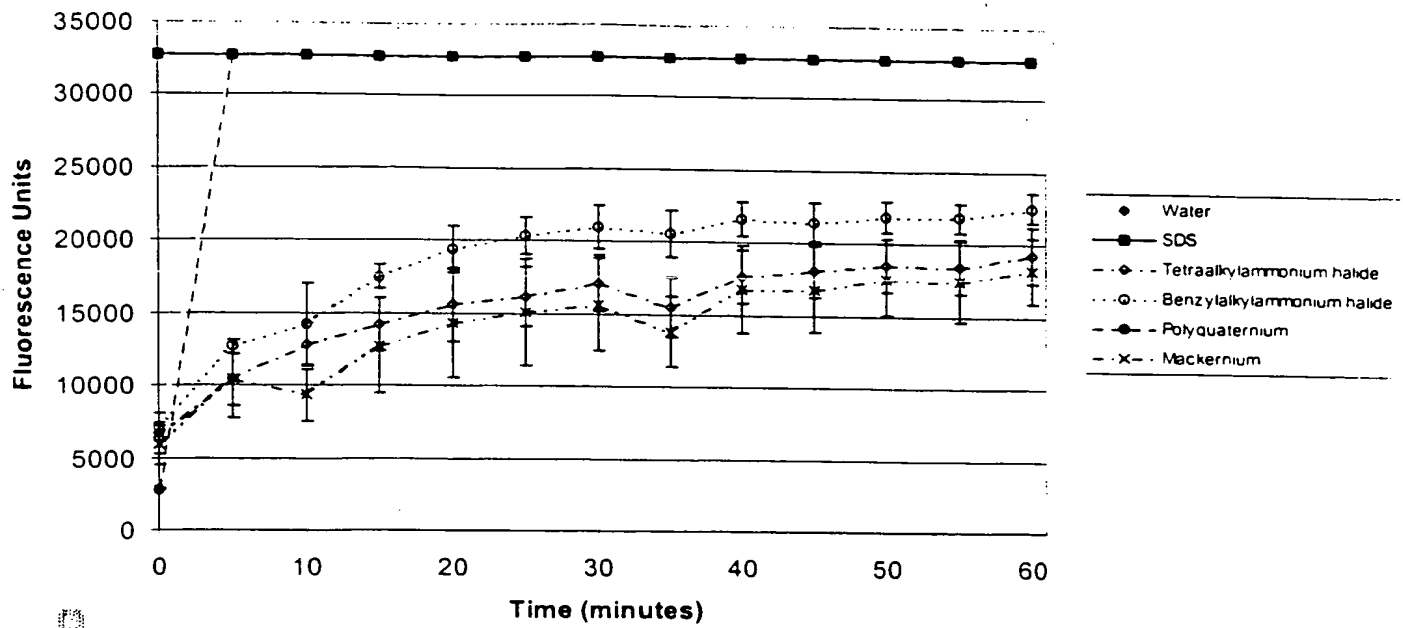


Figure 2A

2.5 ug/mL Proteinase K

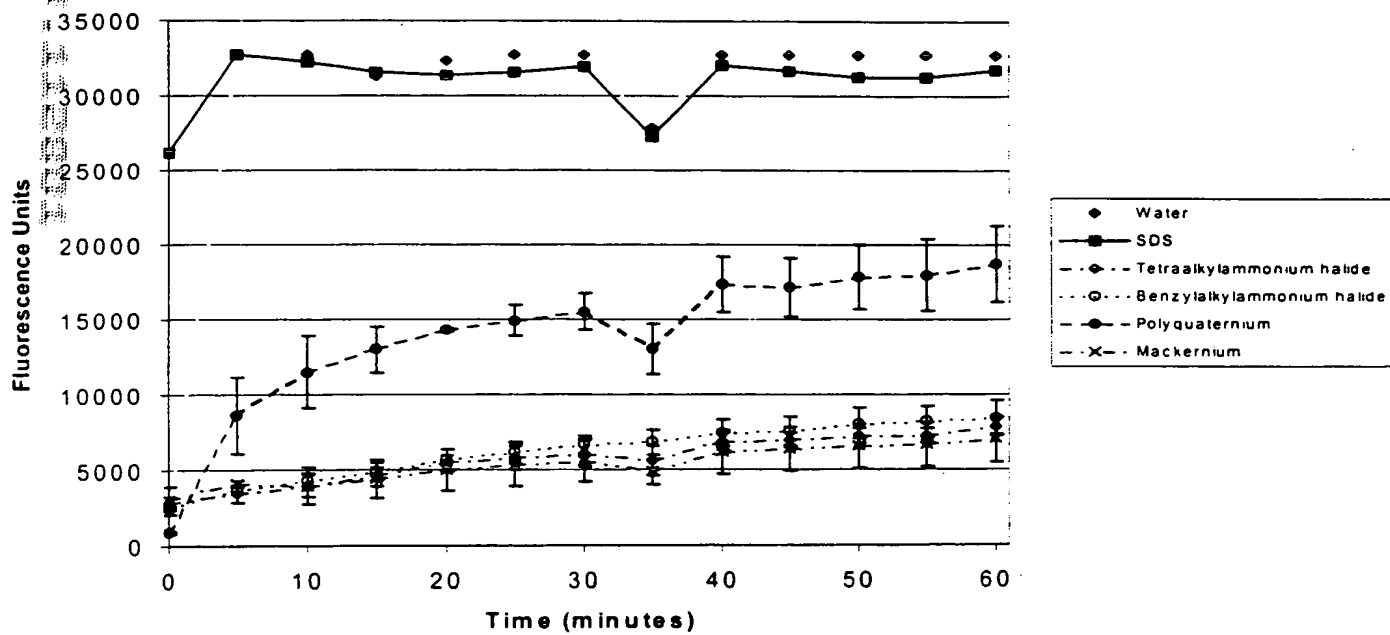


Figure 2B

1.25 ug/mL Proteinase K

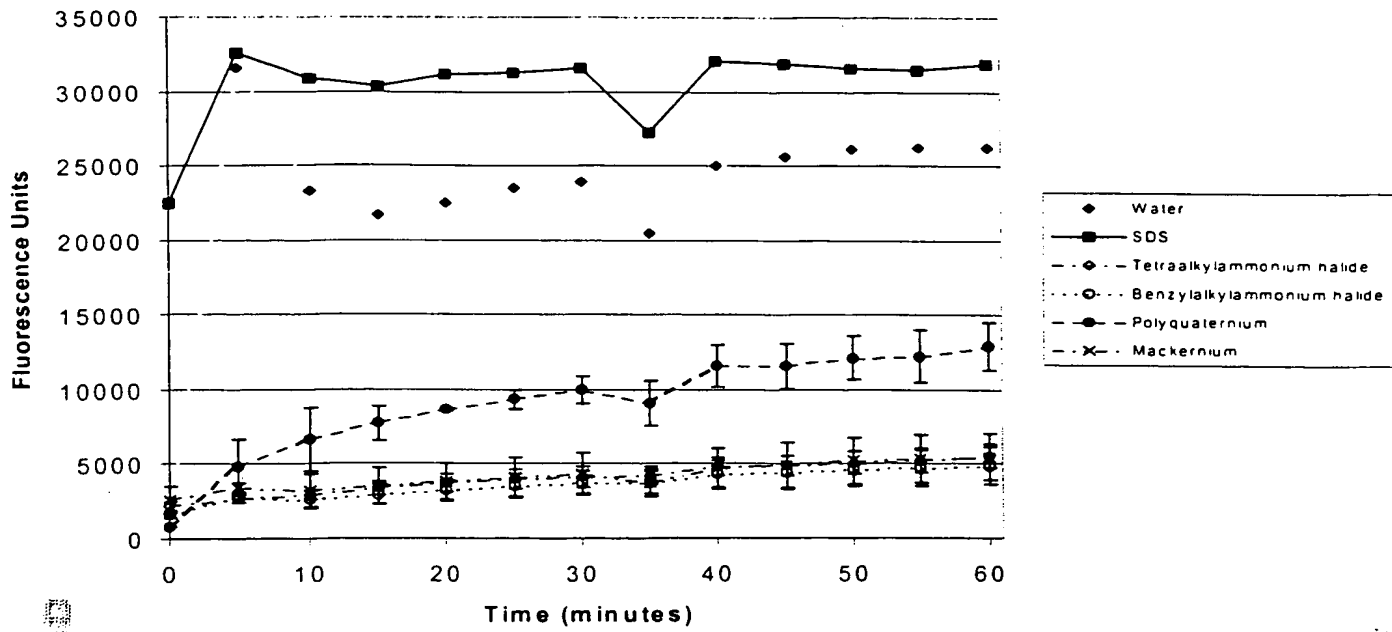


Figure 2C

Amount nucleic acid recovered from liver

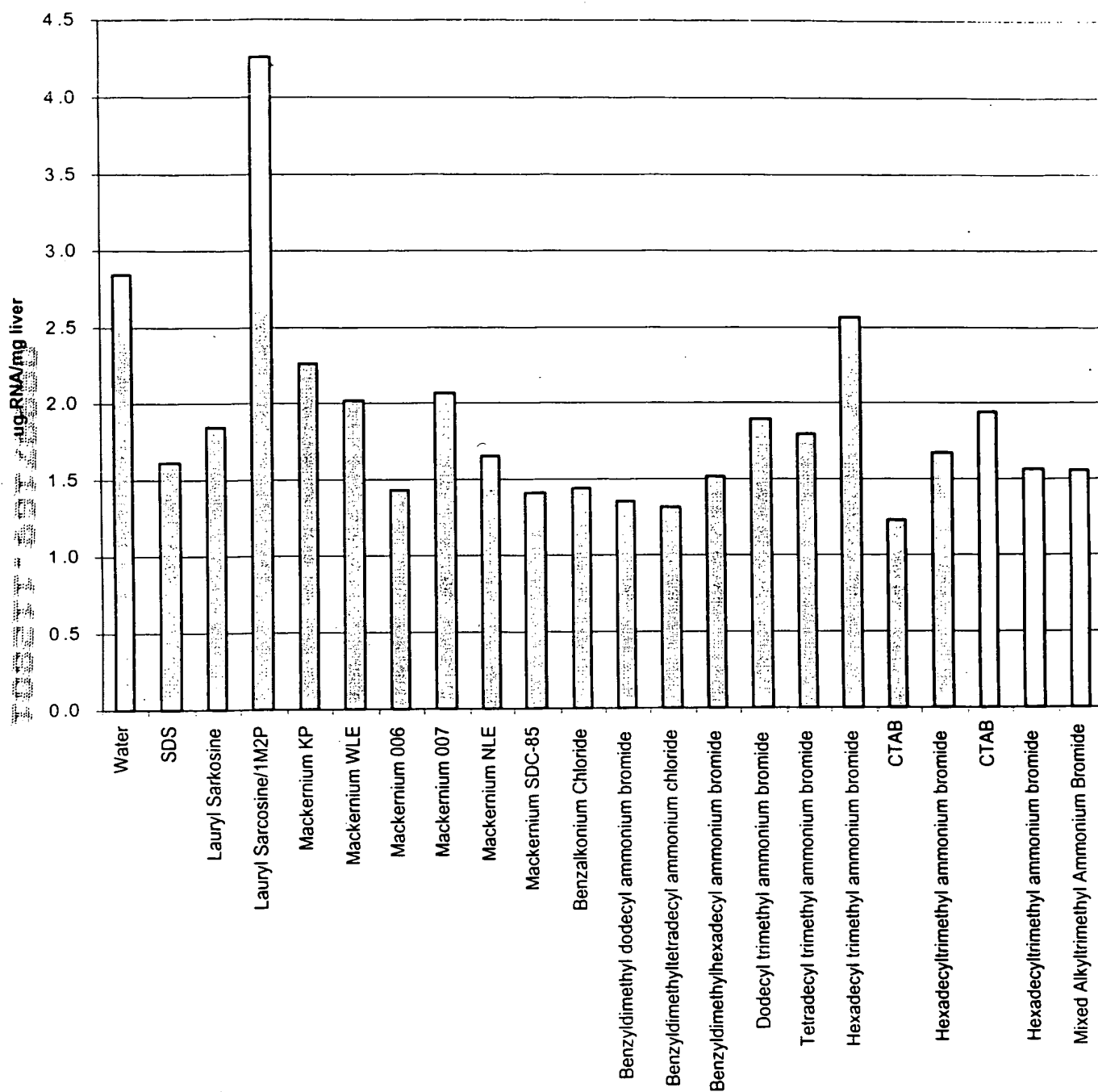


Figure 3

700011-00120000

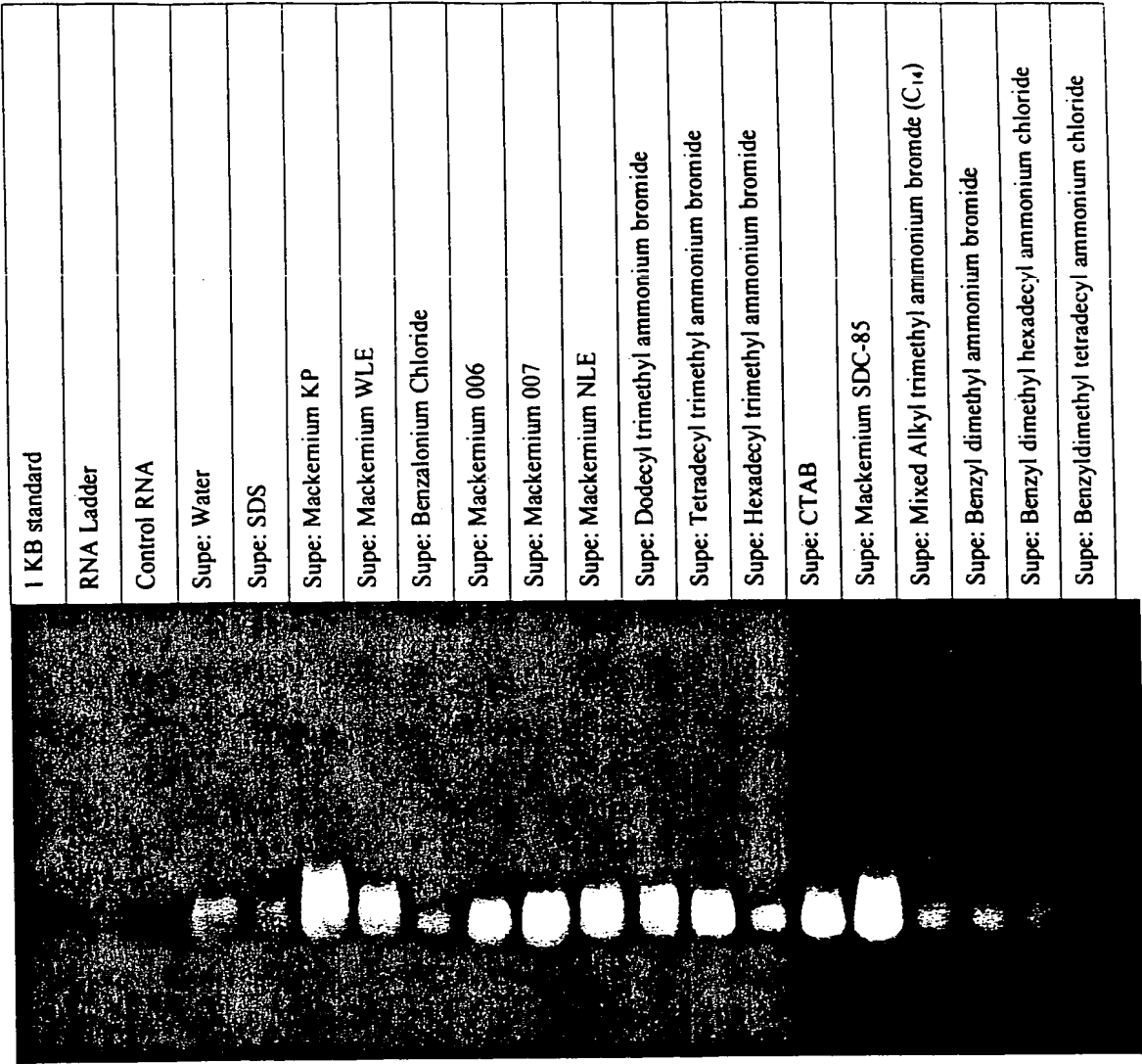


Figure 4

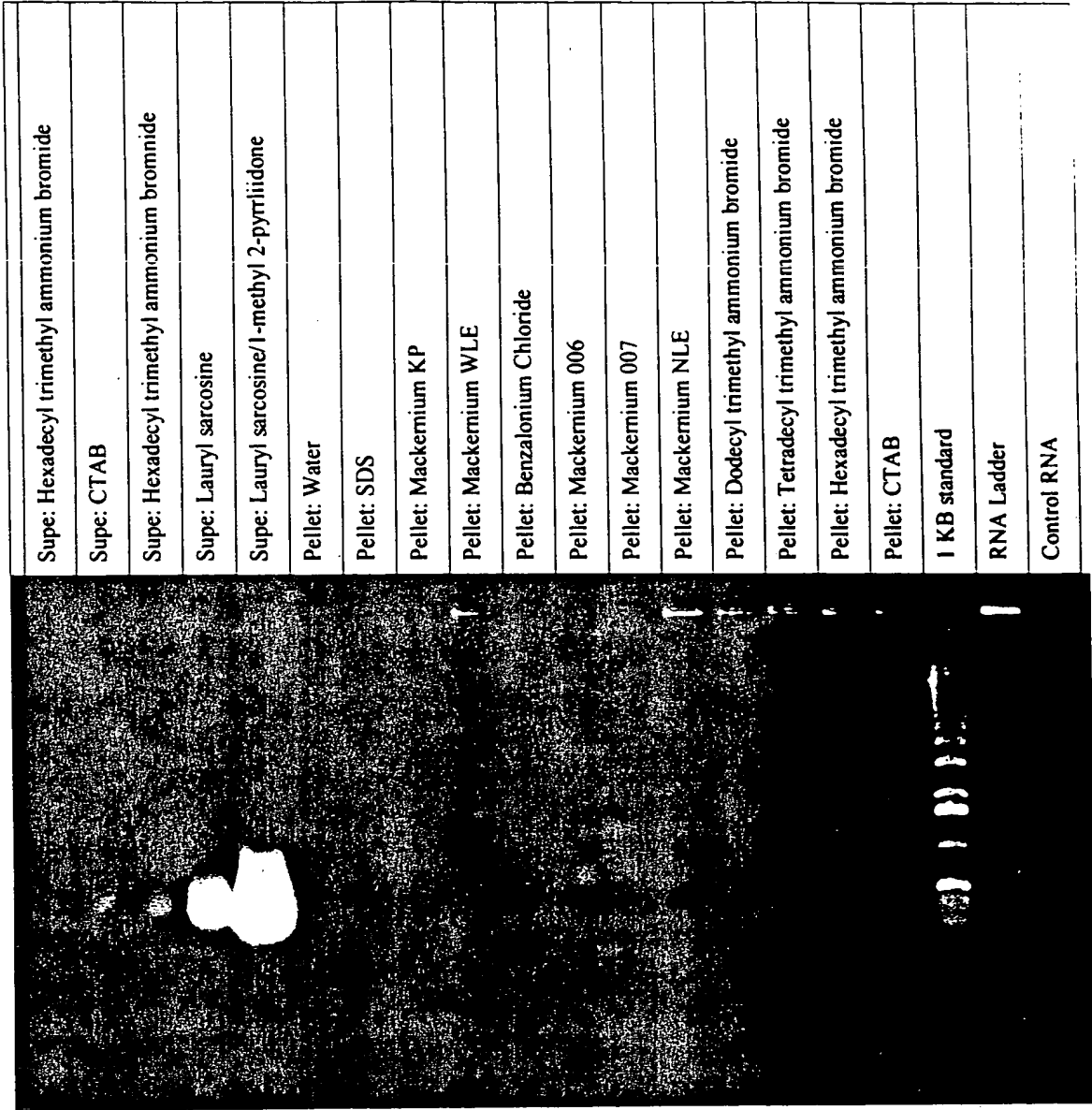


Figure 4 (cont.)

**Amount nucleic acid released from liver
2 mg/mL Proteinase K 45°C 20 minutes plus**

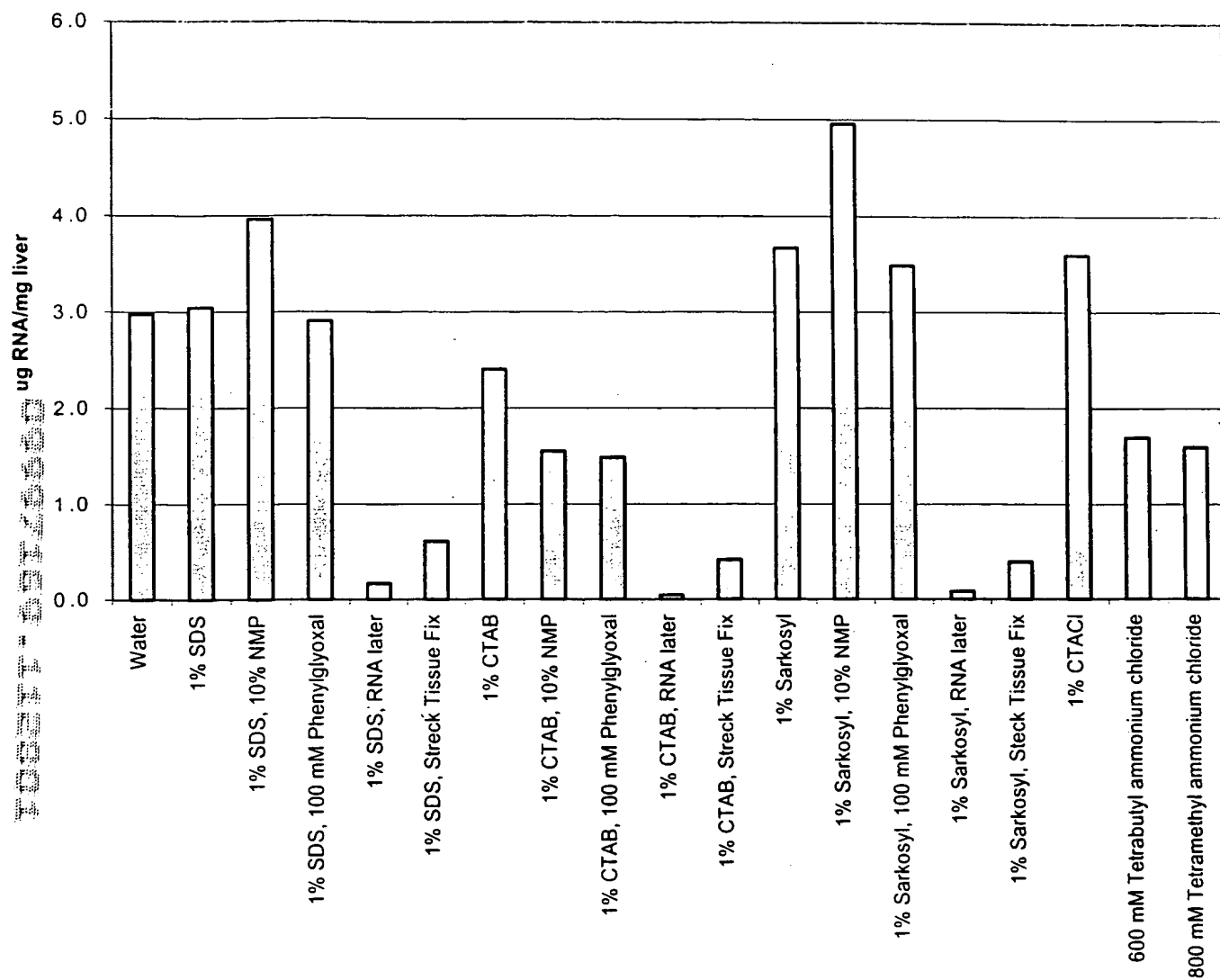


Figure 5

1KB DNA Standard	
RNA Ladder	
Human RNA control	
	No detergent
	1% SDS
10% 1 Methyl 2-pyrrolidinone	1% SDS
100 mM phenylglyoxal	1% SDS
RNA Later	1% SDS
Streck Tissue Fixative	1% SDS
	1% CTAB
10% 1 Methyl 2-pyrrolidinone	1% CTAB
100 mM phenylglyoxal	1% CTAB
RNA Later	1% CTAB
Streck Tissue Fixative	1% CTAB
	1% Sarkosyl
10% 1 Methyl 2-pyrrolidinone	1% Sarkosyl
100 mM phenylglyoxal	1% Sarkosyl
RNA Later	1% Sarkosyl
Streck Tissue Fixative	1% Sarkosyl
	1% CTACl
600 mM tetrabutyl ammonium	No detergent
800 mM tetramethyl	No detergent

Figure 6

Release of OD260 from Liver 1 mg Proteinase K, 45oC 30 minutes

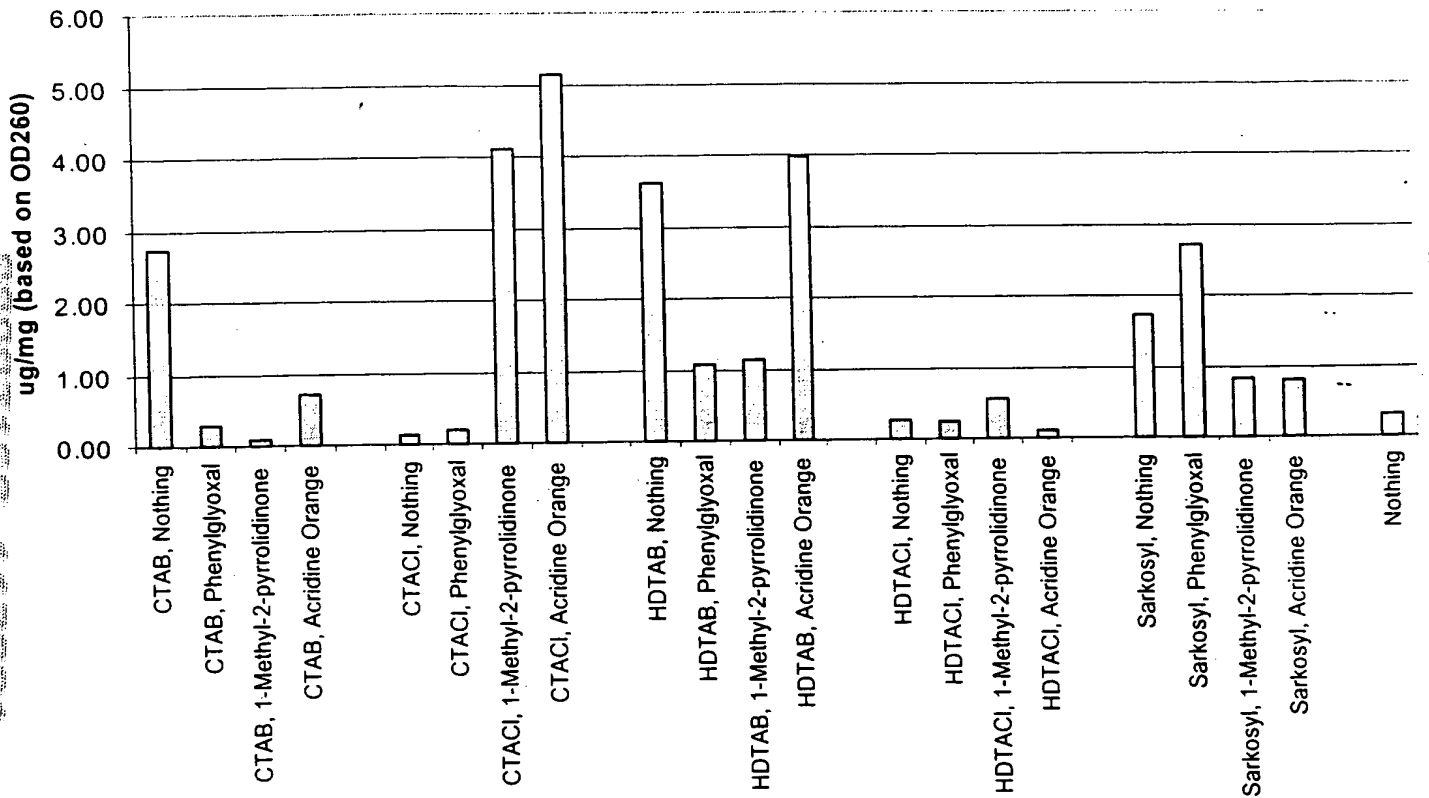


Figure 7

708277-69120550

None	Cetyltrimethylammonium bromide	
phenylglyoxal	Cetyltrimethylammonium bromide	
1-methyl-2-pyrrolidinone	Cetyltrimethylammonium bromide	
Acridine Orange	Cetyltrimethylammonium bromide	
None	Cetyltrimethylammonium chloride	
phenylglyoxal	Cetyltrimethylammonium chloride	
1-methyl-2-pyrrolidinone	Cetyltrimethylammonium chloride	
Acridine Orange	Cetyltrimethylammonium chloride	
None	Hexadecyltrimethylammonium bromide	
phenylglyoxal	Hexadecyltrimethylammonium bromide	
1-methyl-2-pyrrolidinone	Hexadecyltrimethylammonium bromide	
Acridine Orange	Hexadecyltrimethylammonium bromide	
None	Hexadecyltrimethylammonium chloride	
phenylglyoxal	Hexadecyltrimethylammonium chloride	
1-methyl-2-pyrrolidinone	Hexadecyltrimethylammonium chloride	
Acridine Orange	Hexadecyltrimethylammonium chloride	
None	Sarkosyl	
phenylglyoxal	Sarkosyl	
1-methyl-2-pyrrolidinone	Sarkosyl	
Acridine Orange	Sarkosyl	
	No detergent	

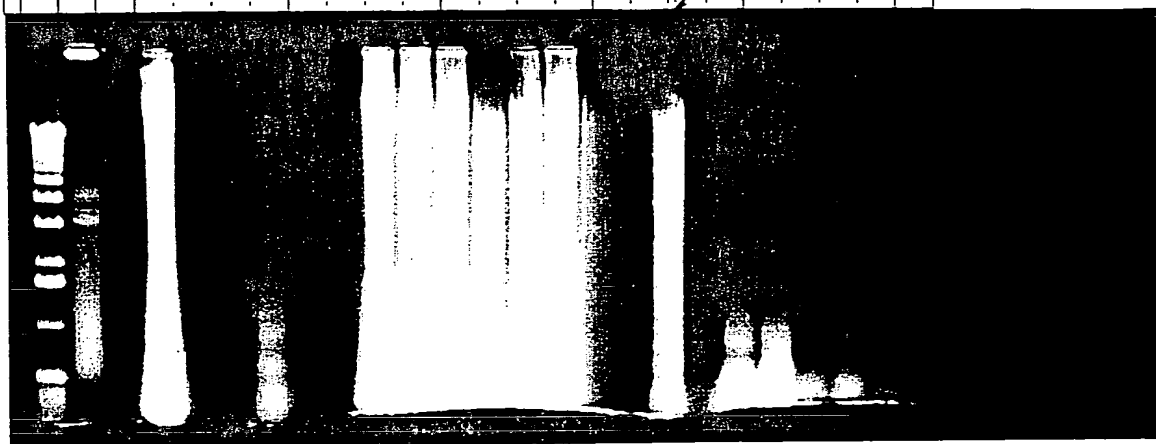


Figure 8

Effect of Tissue Presoaking **1 mg Proteinase K, 45°C 30 minutes**

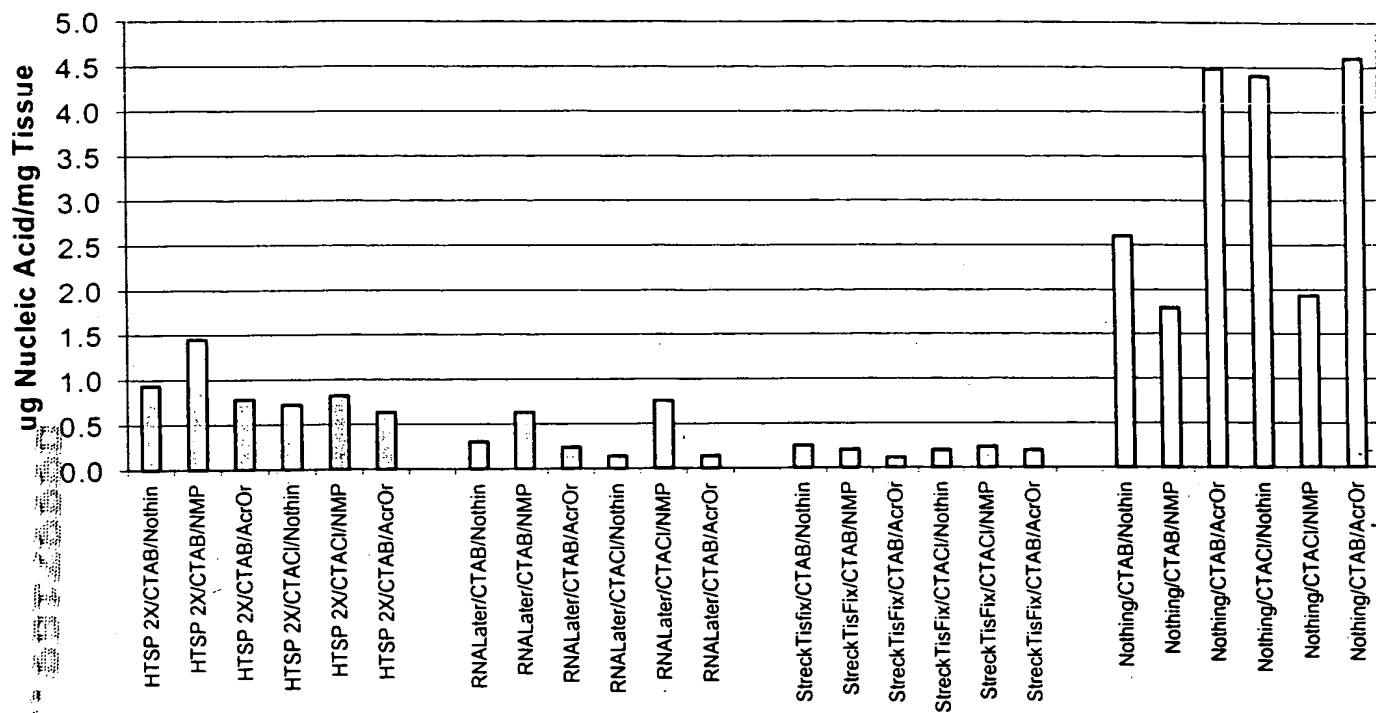


Figure 9

0907169 - 42004

		2XHTSP		RNA Later		Streck Tissue Fixat		Nothing	
		CTAB	CTACI	CTAB	CTACI	CTAB	CTACI	CTAB	CTACI
		Nothing		Nothing		Nothing		Nothing	
		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone	
		Acridine Orange		Acridine Orange		Acridine Orange		Acridine Orange	
		Nothing		Nothing		Nothing		Nothing	
		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone	
		Acridine Orange		Acridine Orange		Acridine Orange		Acridine Orange	
		Nothing		Nothing		Nothing		Nothing	
		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone	
		Acridine Orange		Acridine Orange		Acridine Orange		Acridine Orange	
		Nothing		Nothing		Nothing		Nothing	
		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone	
		Acridine Orange		Acridine Orange		Acridine Orange		Acridine Orange	
		Nothing		Nothing		Nothing		Nothing	
		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone		1-methyl-2-pyrrolidinone	
		Acridine Orange		Acridine Orange		Acridine Orange		Acridine Orange	



Figure 10

1% CTAB						1% CTACl						1% SDS					
5 mM Aurintricarboxylic Acid	2 mM Aurintricarboxylic Acid	1 mM Aurintricarboxylic Acid	0.5 mM Aurintricarboxylic Acid	0.2 mM Aurintricarboxylic Acid	0.1 mM Aurintricarboxylic Acid	5 mM Aurintricarboxylic Acid	2 mM Aurintricarboxylic Acid	1 mM Aurintricarboxylic Acid	0.5 mM Aurintricarboxylic Acid	0.2 mM Aurintricarboxylic Acid	0.1 mM Aurintricarboxylic Acid	5 mM Aurintricarboxylic Acid	2 mM Aurintricarboxylic Acid	1 mM Aurintricarboxylic Acid	0.5 mM Aurintricarboxylic Acid	0.2 mM Aurintricarboxylic Acid	0.1 mM Aurintricarboxylic Acid

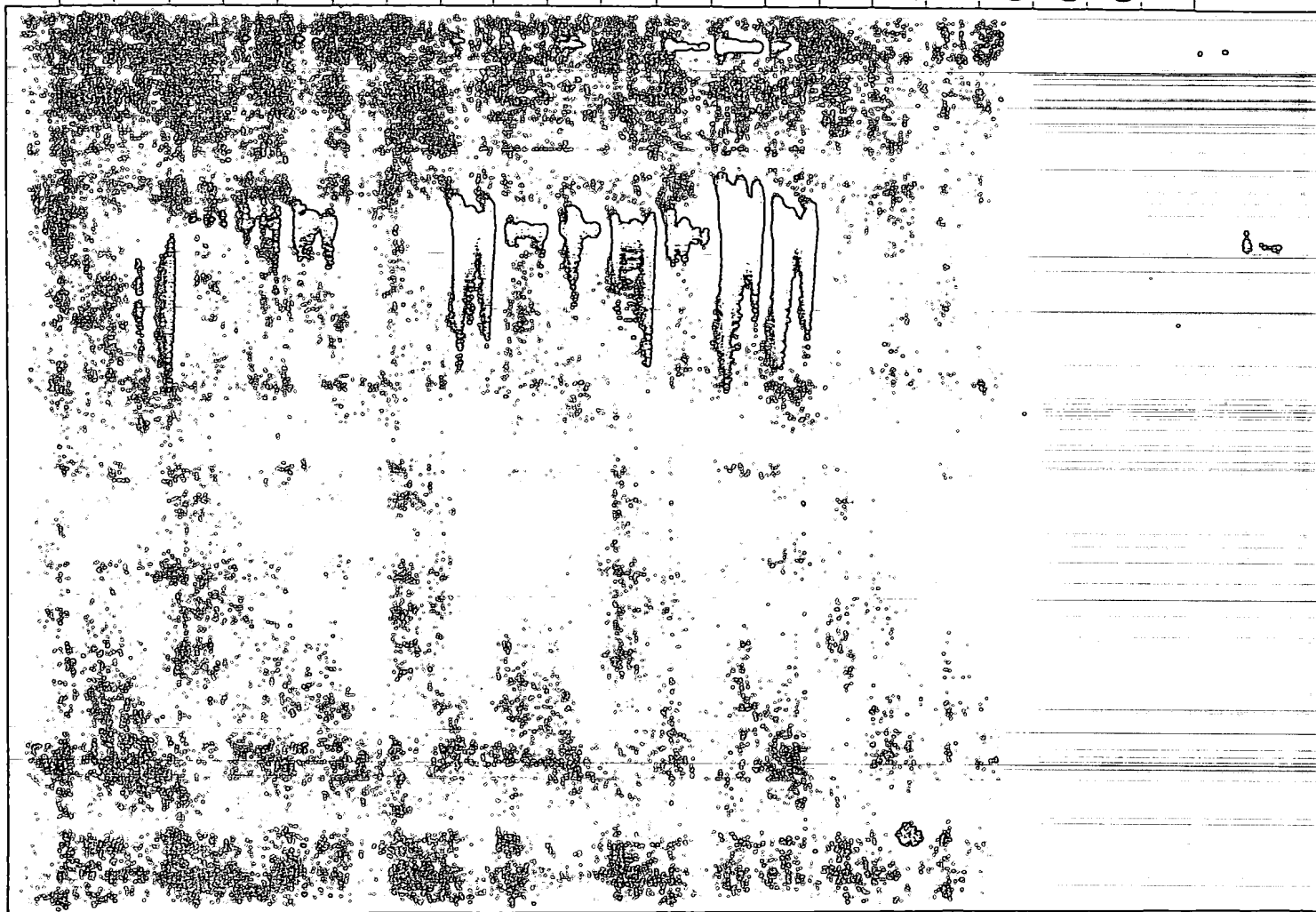
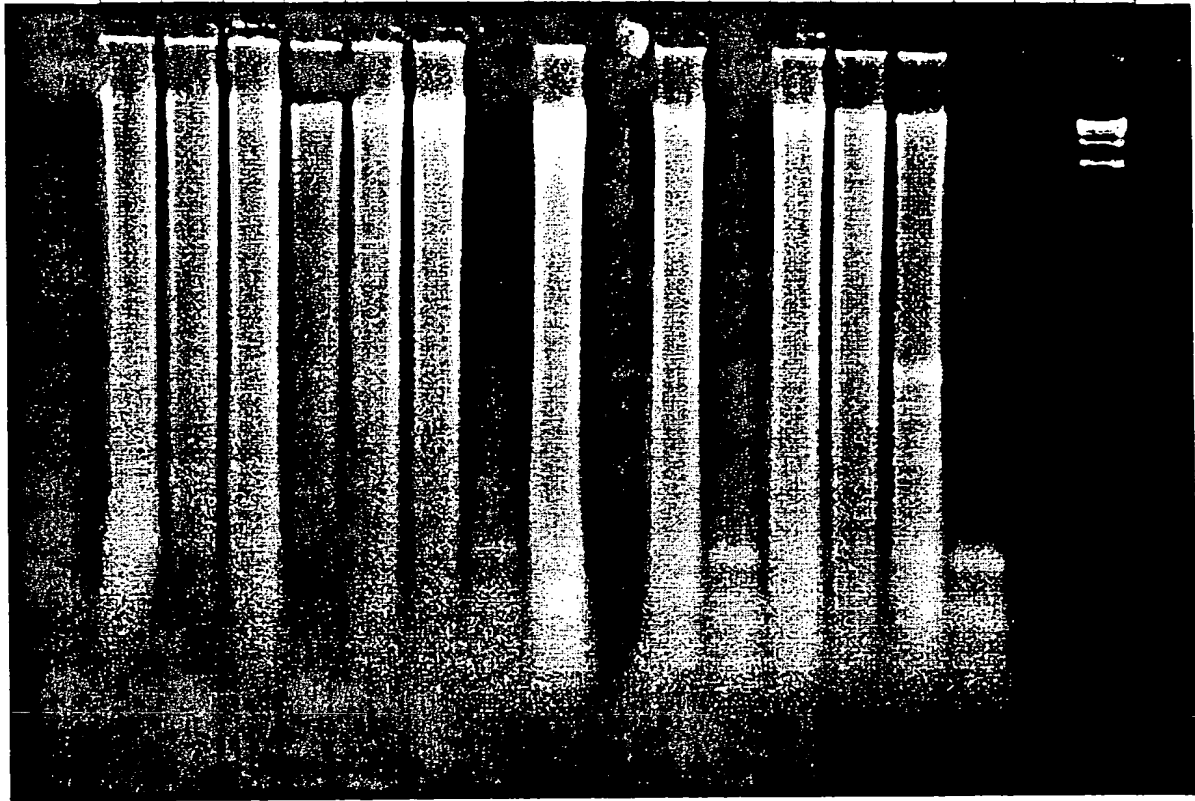


Figure 11

100211-55120000



Dodecyltrimethylammonium bromide
Tetradecyltrimethylammonium bromide
Cetyltrimethylammonium bromide
Cetyltrimethylammonium chloride
Hexadecyltrimethylammonium bromide
Hexadecyltrimethylammonium bromide
Mackernium 006 (Polyquaternium 6)
Mackernium KP (Olealkonium chloride)
Mackernium NLE (Quaternium-84)
Mackernium 007 (Polyquaternium-7)
Mackernium Stearalkonium SDC85 Chloride
Benzalkonium chloride
SDS
Nothing

Figure 12

105311-53125550

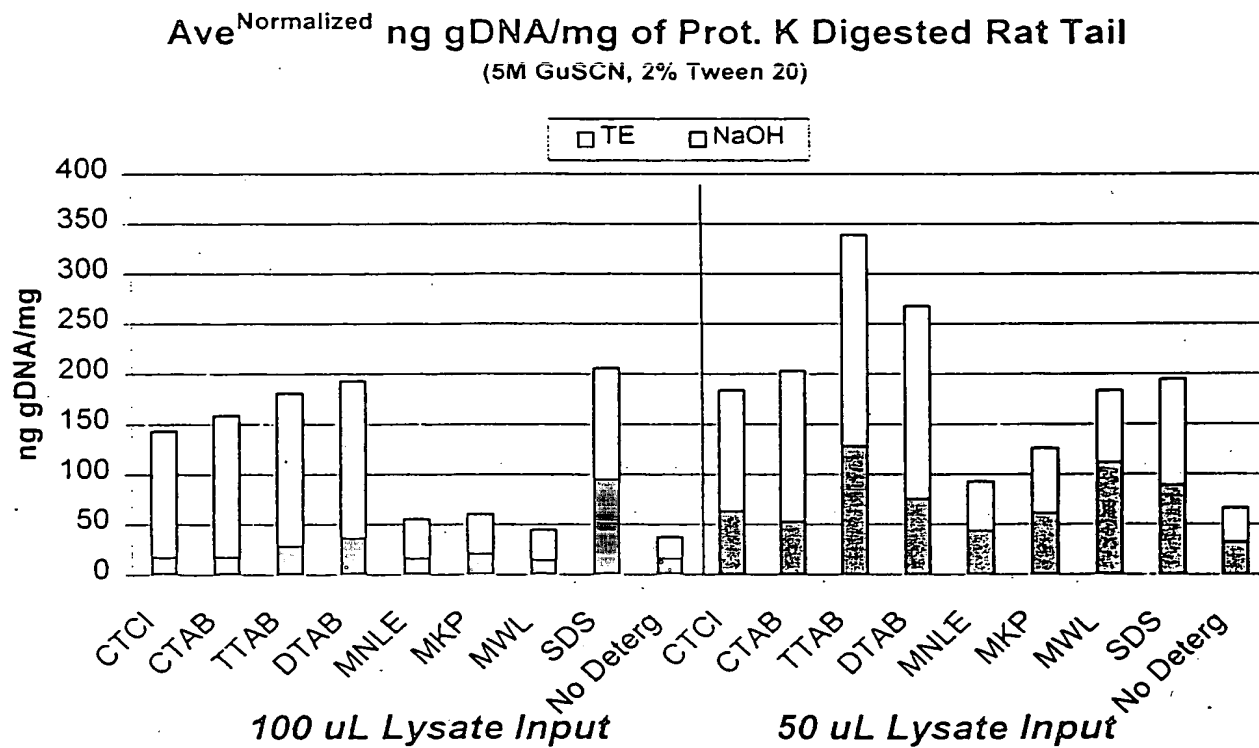


Figure 13

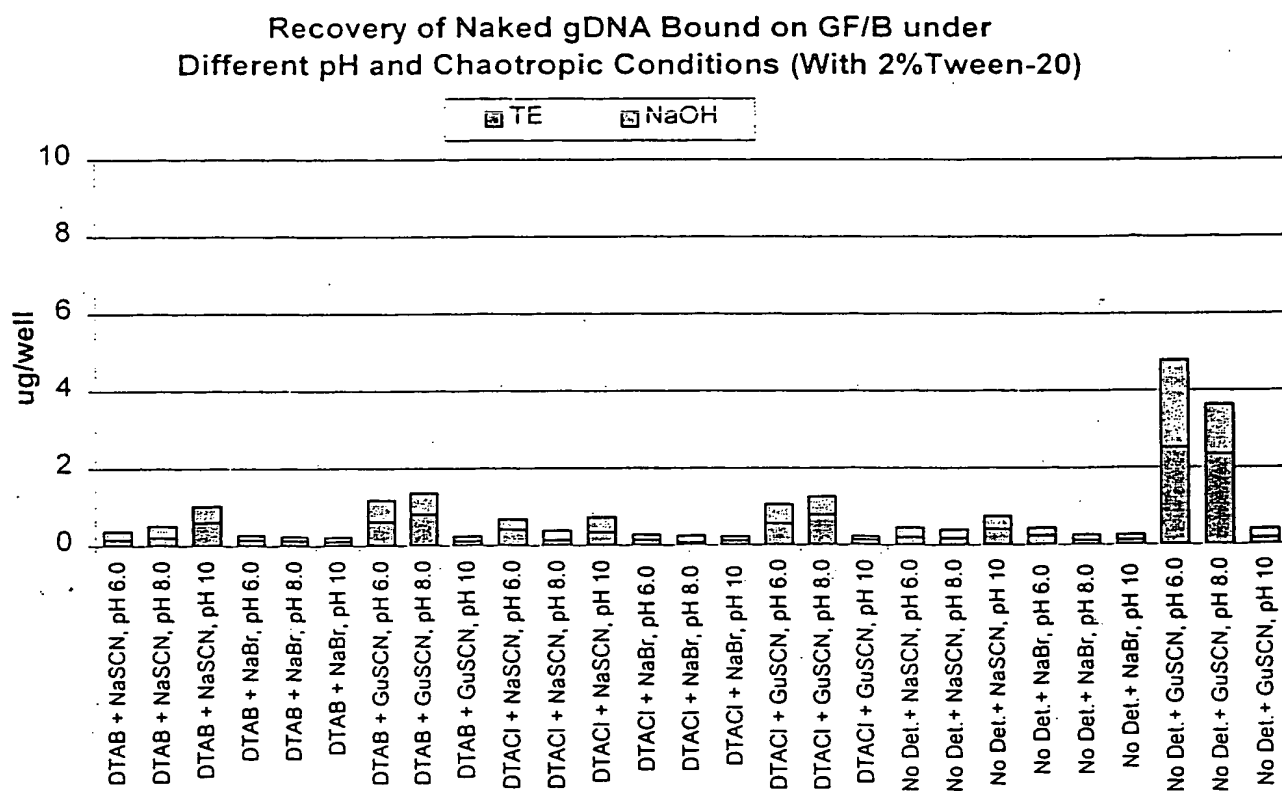


Figure 14

Recovery of Naked gDNA Bound on GF/B under Different pH and Chaotropic Conditions (No Tween-20)

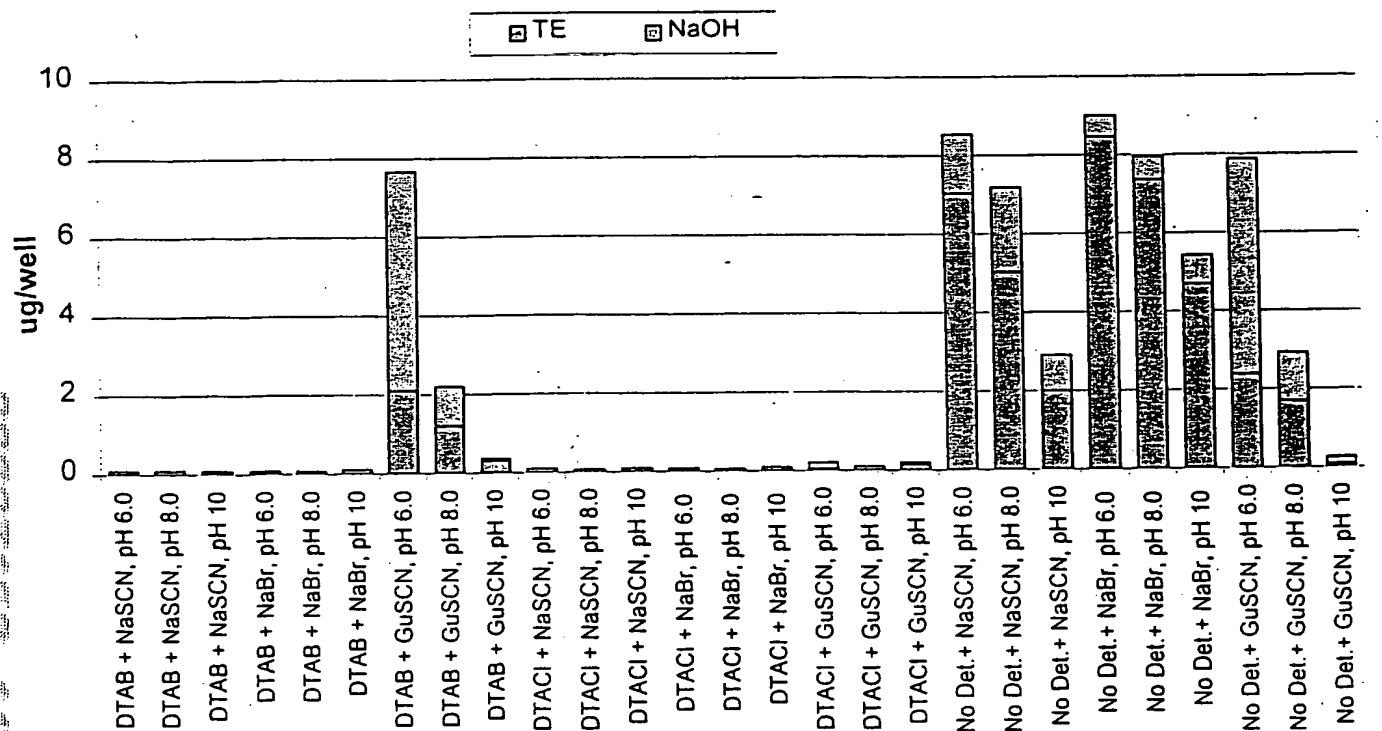


Figure 15

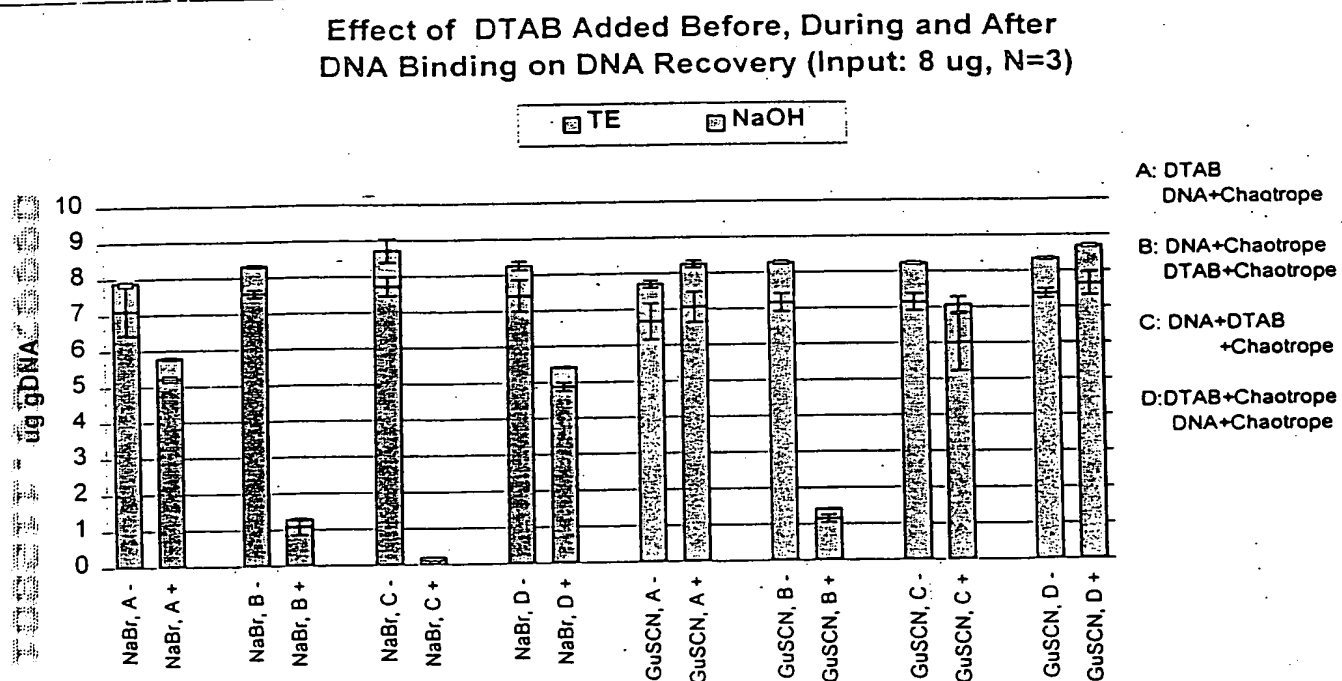


Figure 16

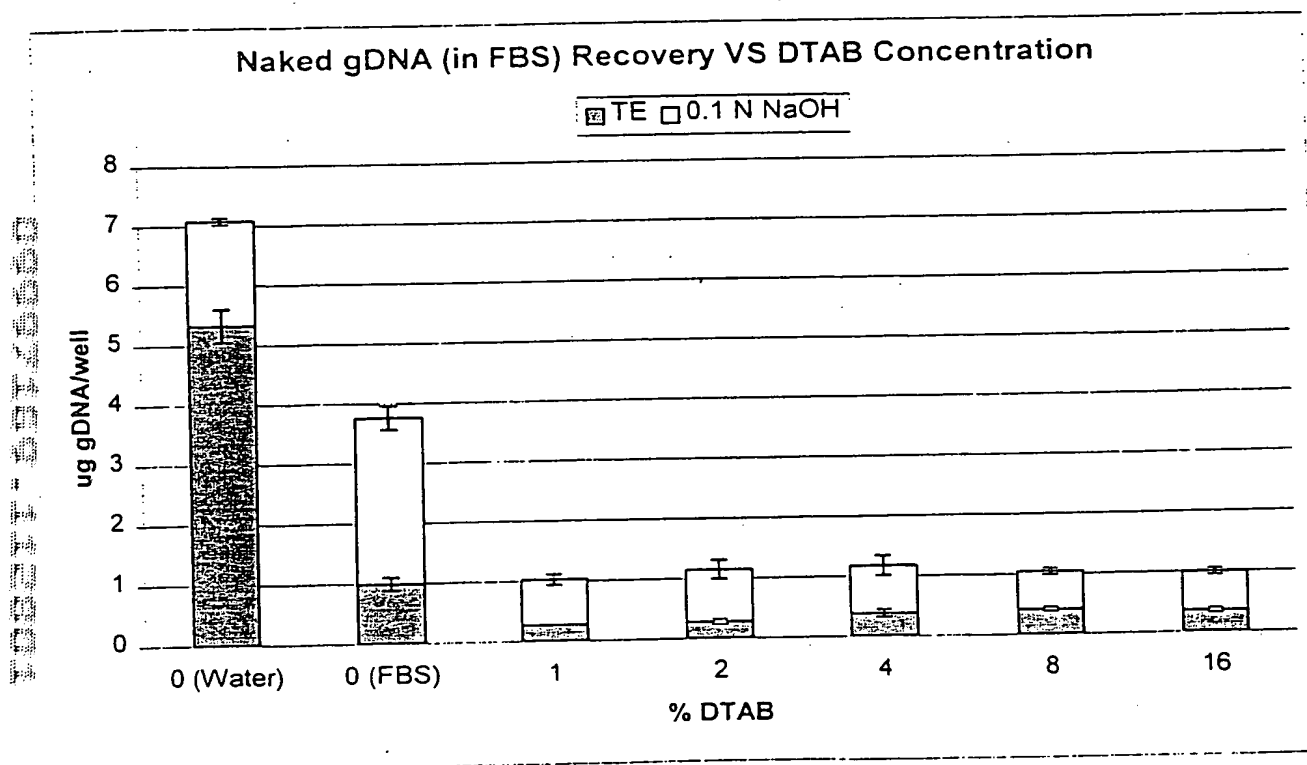


Figure 17

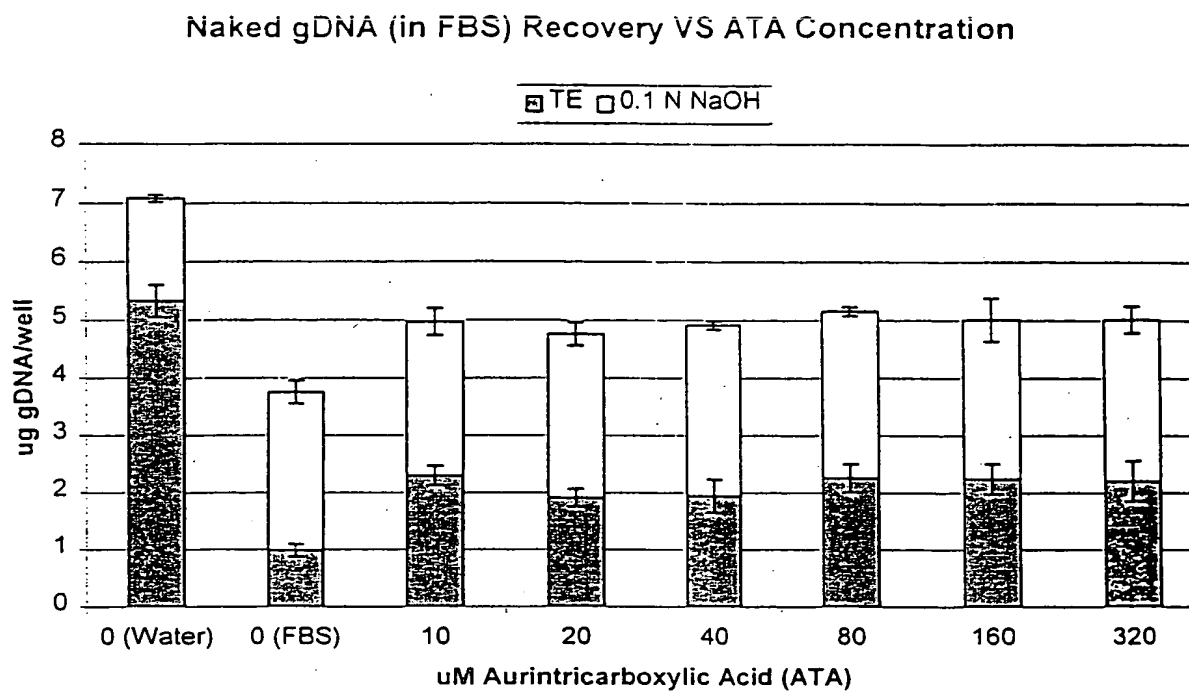


Figure 18

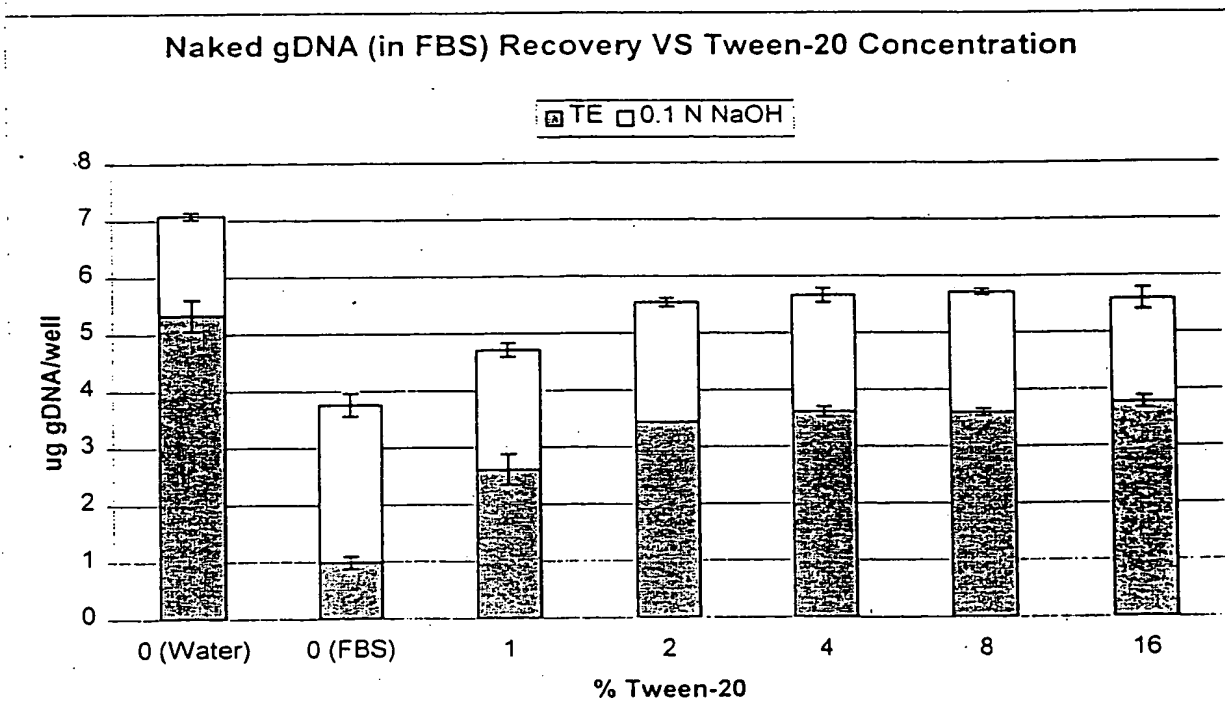


Figure 19

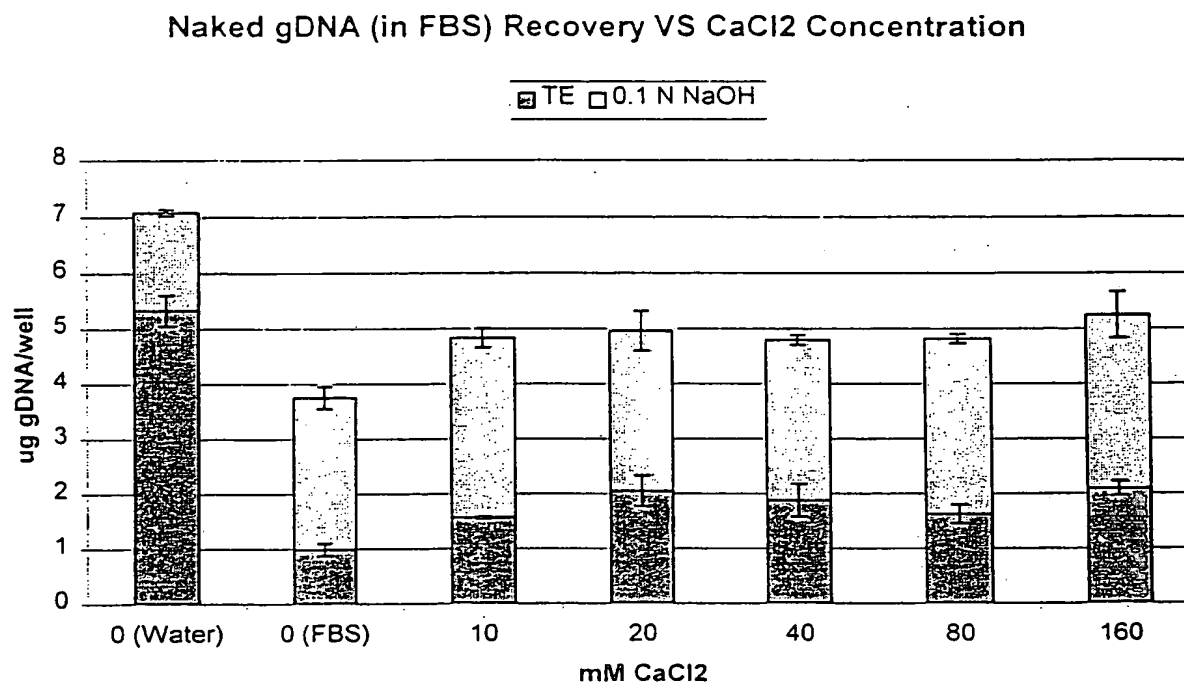


Figure 20

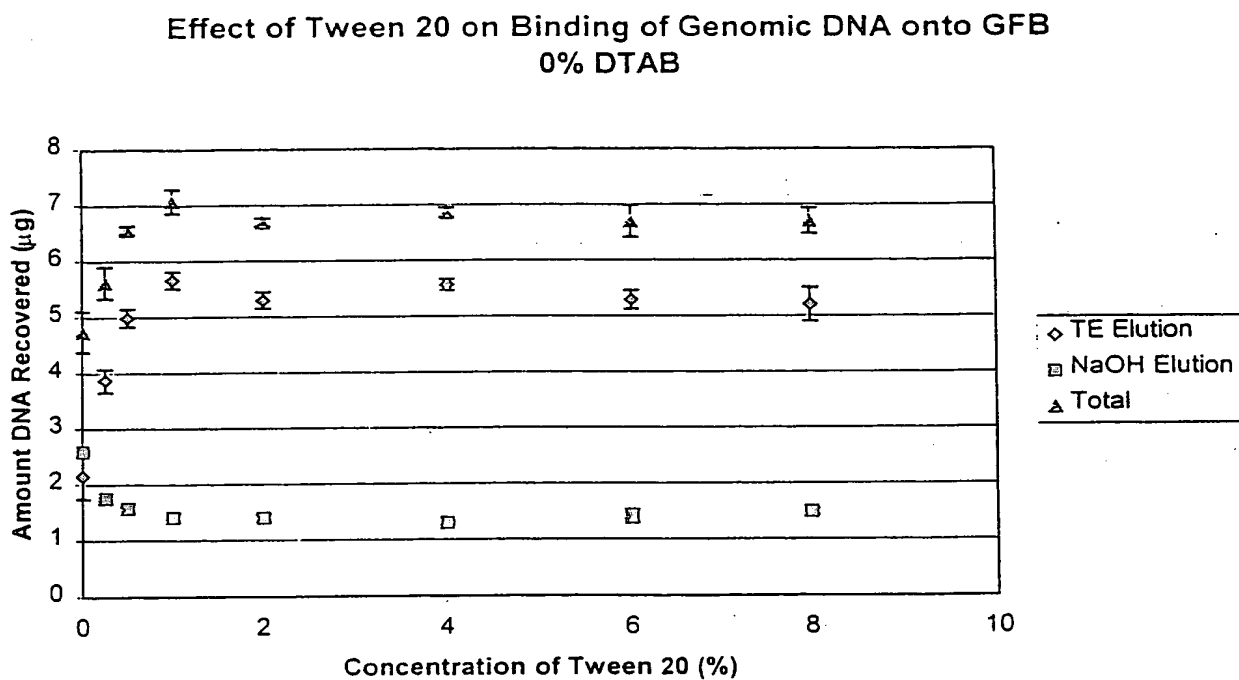


Figure 21

Effect of Tween 20 on Binding of Genomic DNA onto GFB
1% DTAB

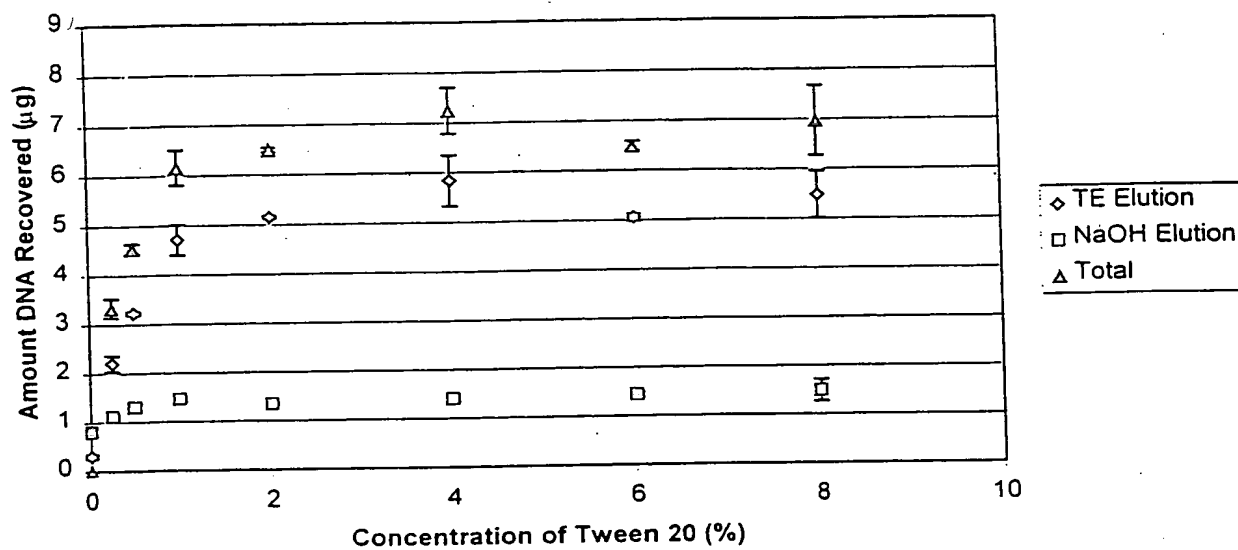


Figure 22

Effect of Tween 20 on Binding of Genomic DNA onto GFB
4% DTAB

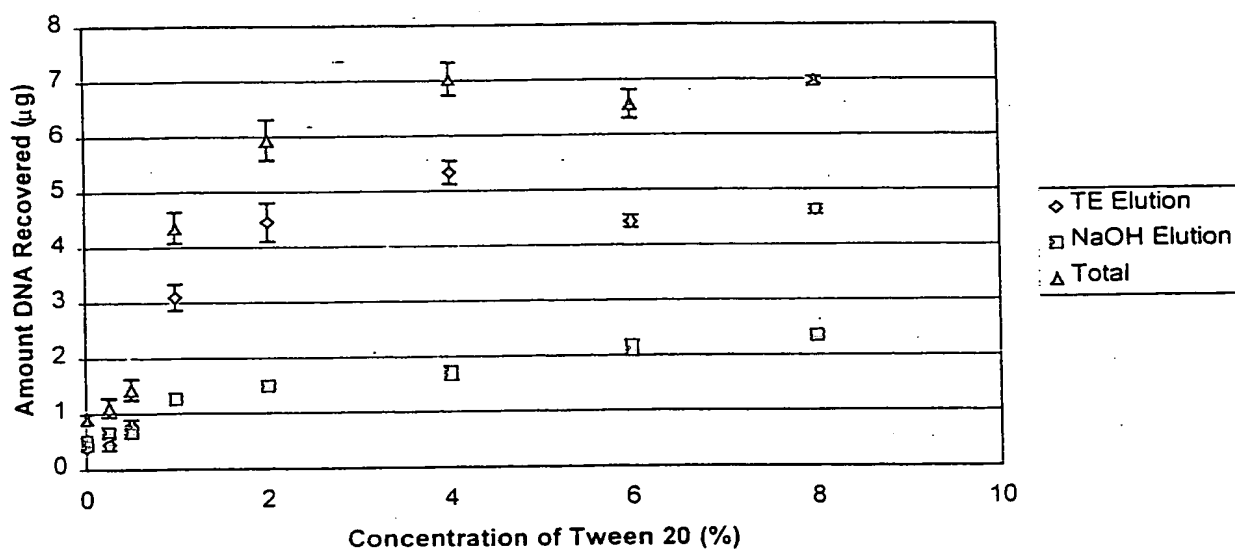


Figure 23

Effect of Tween 20 on Binding Genomic DNA onto GFB
Total

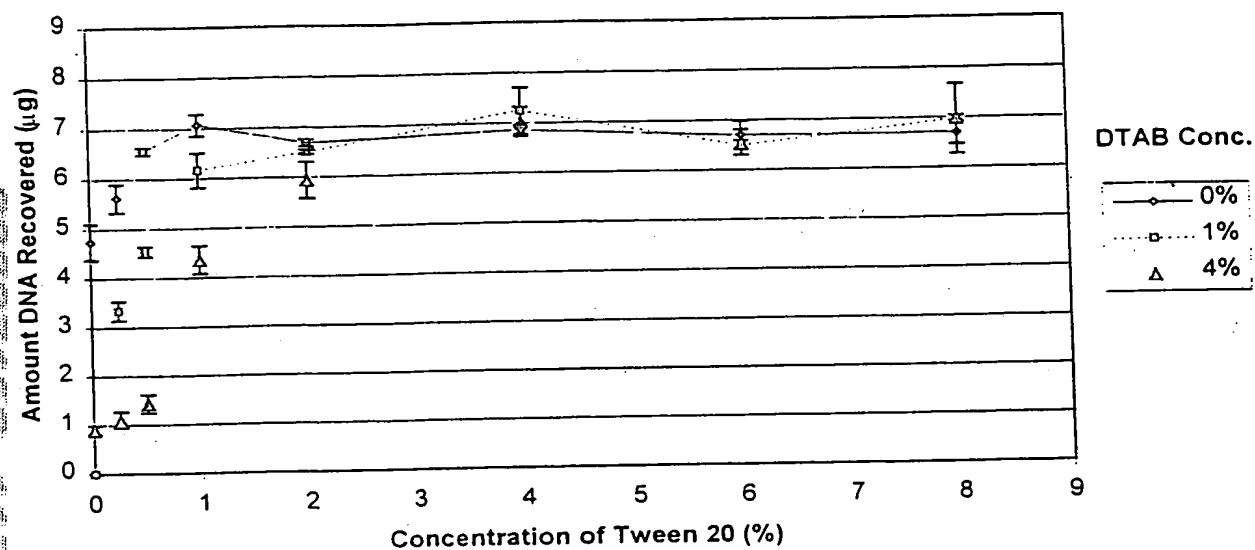


Figure 24

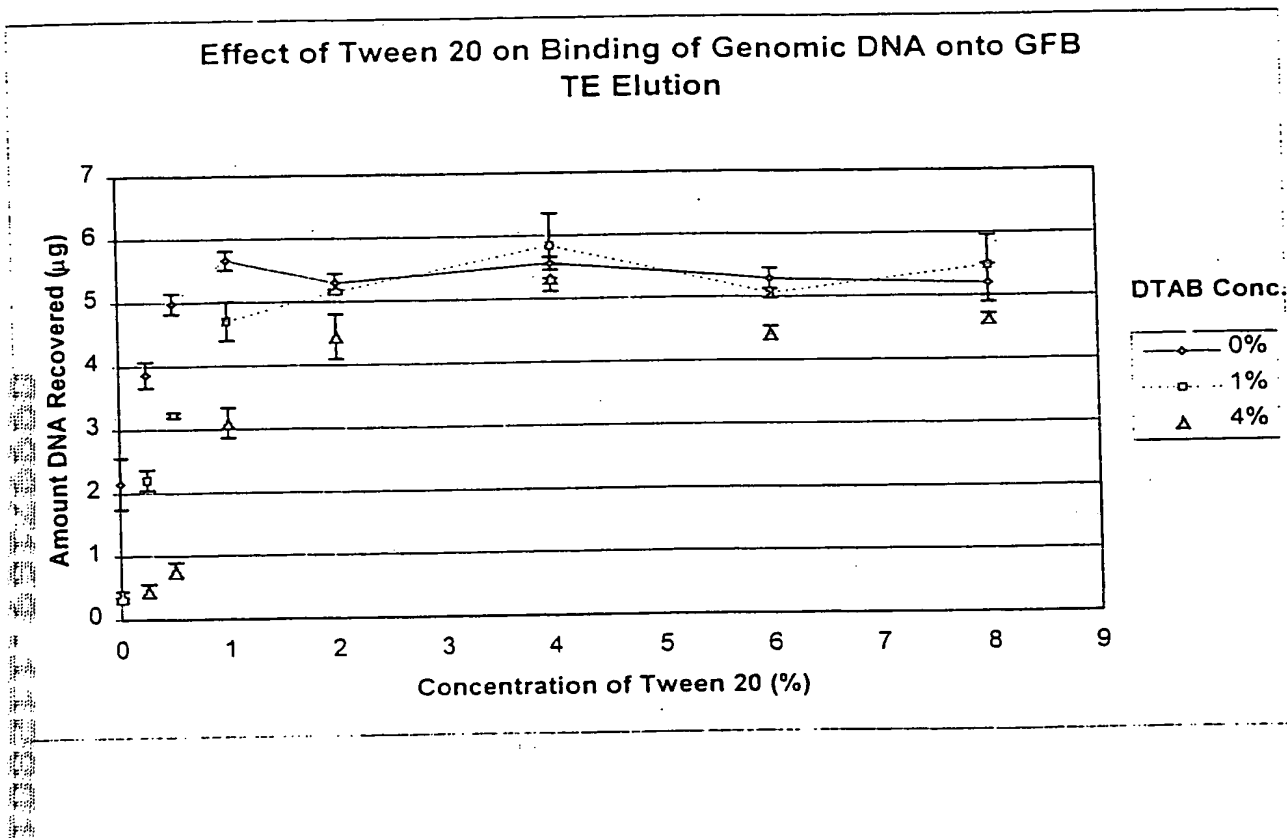


Figure 25

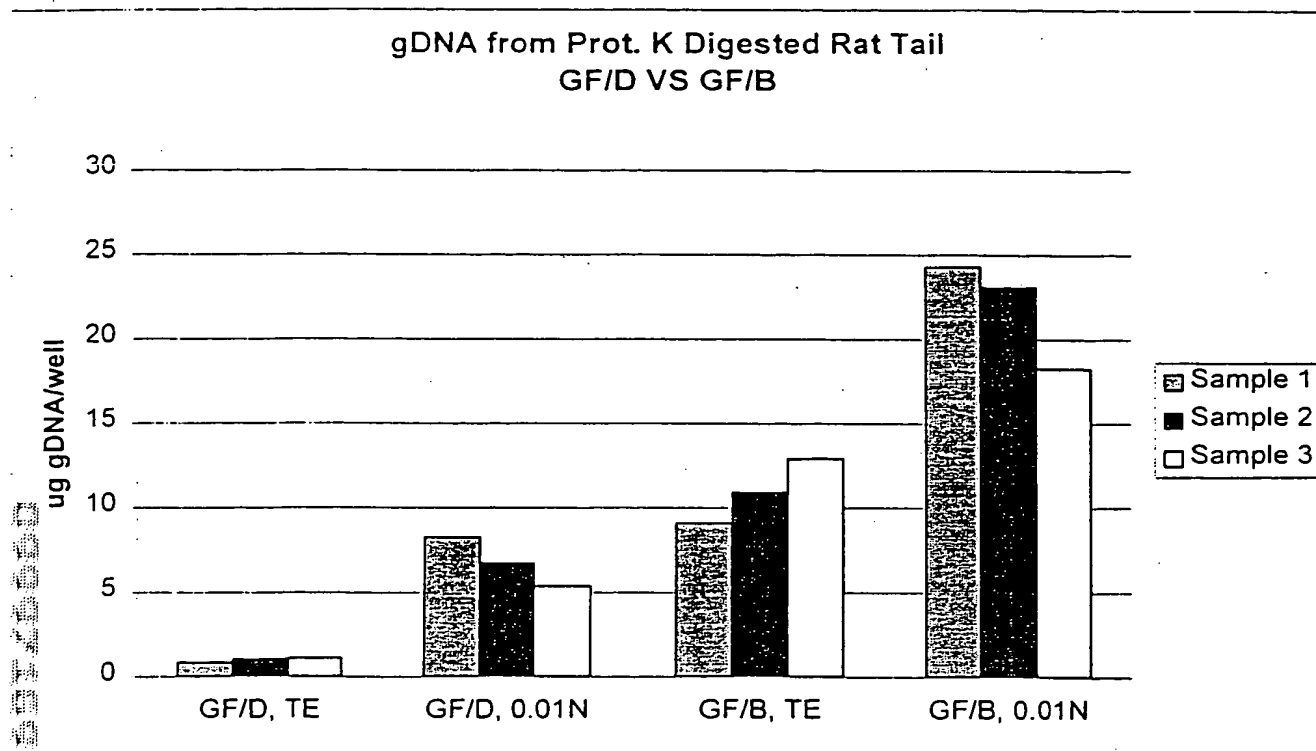


Figure 26

200311-63146550

Total gDNA from Prot. K-Digested Rat Tail
GF/D VS GF/B

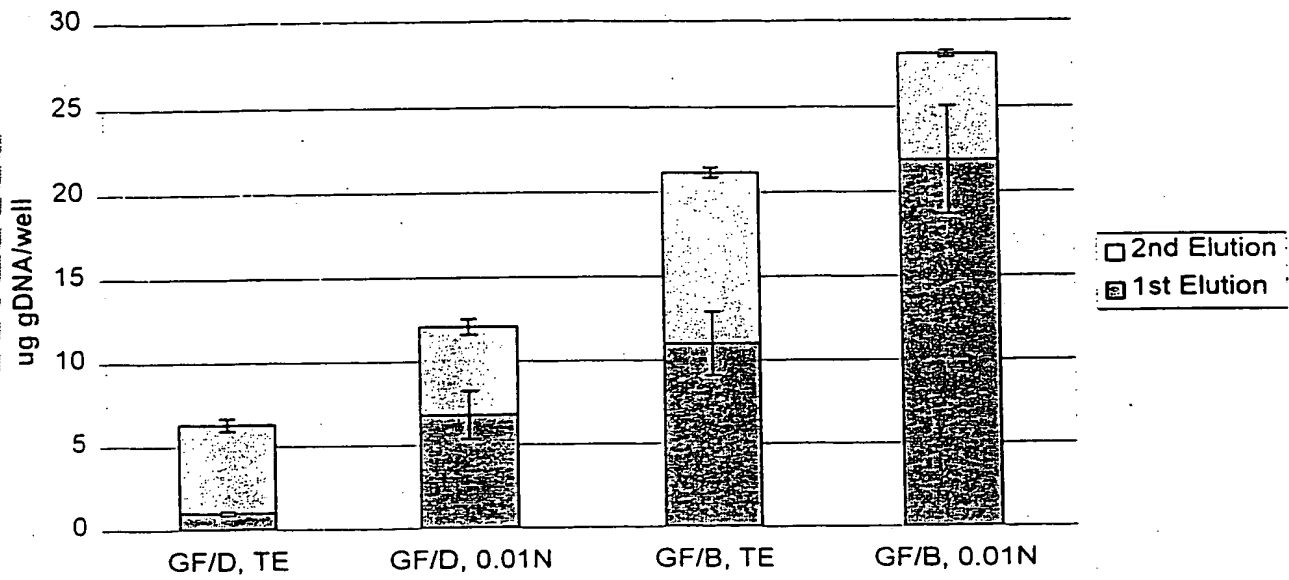
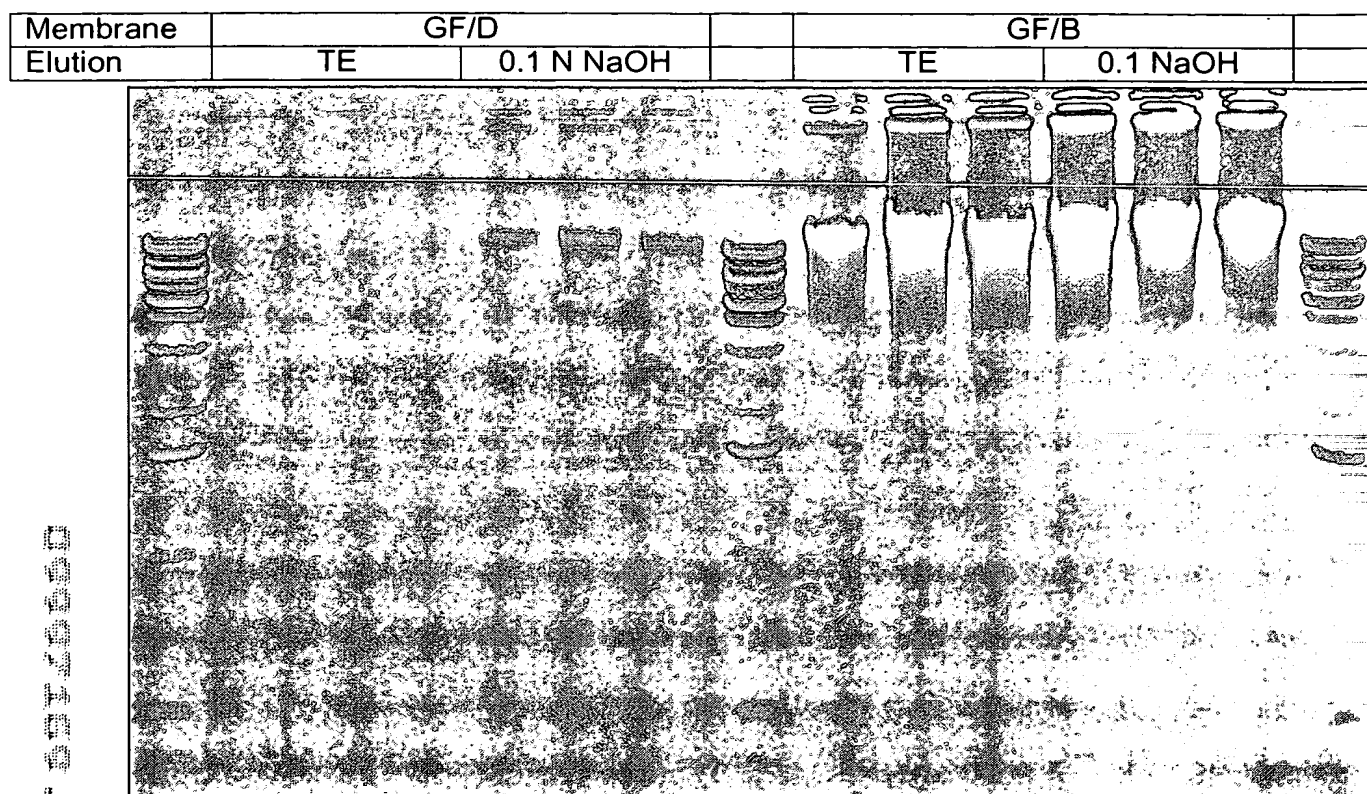


Figure 27



Genomic DNA from 50 mg rat tail sections digested with 1 mg of Prot. K & 1% DTAB and bound onto GF/B and GF/D membranes under 3.75 M GuSCN and 4.5 % Tween 20. The gDNA was finally eluted with of 150 mL of 1X TE and 0.01 N NaOH solutions and 20 mL was used for gel electrophoresis (1 % agarose).

Figure 28

gDNA Recovery and Purity from 50 mg Rodent Tissues (3 GF/B Layers)

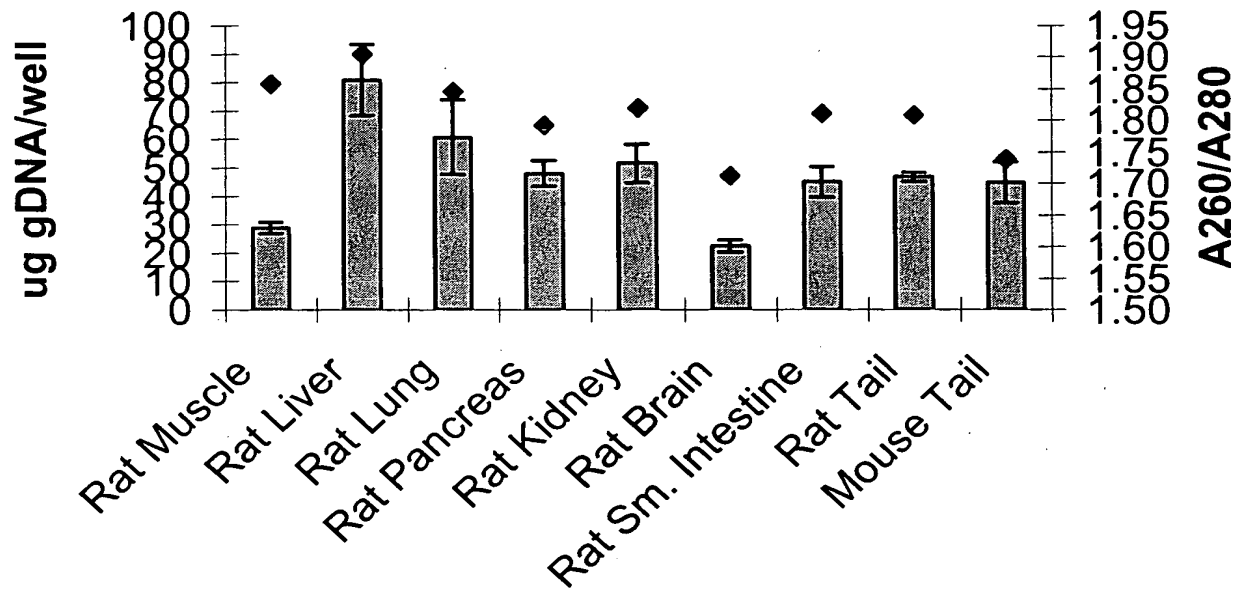


Figure 29

gDNA from 50 mg Rat Tissues

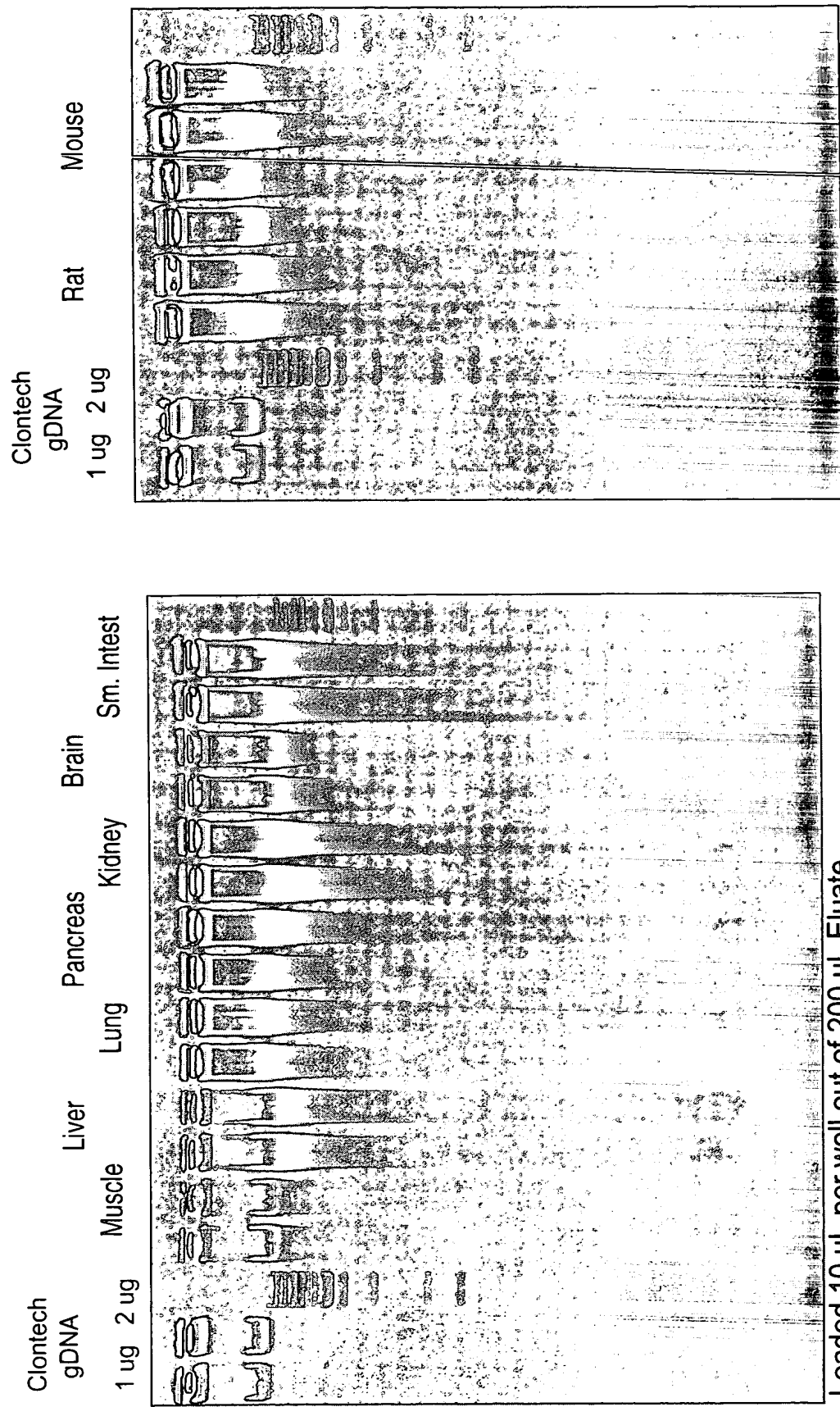


Figure 30